IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF DELAWARE

TIME WARNER CABLE INC.,)
Plaintiff,))
v.) C.A. No
USA VIDEO TECHNOLOGY CORP.,)
Defendant.)

COMPLAINT FOR DECLARATORY JUDGMENT

Plaintiff, Time Warner Cable Inc. ("TWC"), files this original complaint for declaratory judgment relief against Defendant, USA Video Technology Corporation ("USVO"), and alleges as follows:

PARTIES

- 1. Plaintiff TWC is a corporation organized under the laws of the State of Delaware with its principal place of business at 290 Harbor Drive, Stamford, CT 06902.
- 2. On information and belief, USVO is a corporation organized under the laws of the State of Wyoming with its principal place of business at 83 Halls Road, P.O. Box 245, Old Lyme, Connecticut 06371.

JURISDICTION AND VENUE

- 3. This action is for declaratory relief of non-infringement, invalidity, and/or unenforceability of U.S. Patent No. 5,130,792 ("the '792 patent") and arises under the United States patent laws (35 U.S.C. §§ 101, et. seq.). The Court has subject matter jurisdiction over this action pursuant to the Declaratory Judgment Act (28 U.S.C. §§ 2201 and 2202) and 28 U.S.C. §§ 1331 and 1338.
- 4. This Court has general and specific personal jurisdiction over USVO because USVO transacts business within this judicial district (Delaware), and because USVO has purposefully availed itself of the laws and protection of the courts in Delaware in filing a prior patent infringement action based on the same '792 patent in the United States District Court for the District of Delaware. This prior patent infringement action was captioned USA Video Technology Corporation v. Movielink, LLC, C.A. No. 03-368-KAJ ("USVO v. Movielink litigation").
- 5. There exists a nexus between the USVO v. Movielink litigation and the present action, both of which relate to alleged infringement, invalidity, and unenforceability of the '792 patent.
- 6. The present action is related to the USVO v. Movielink litigation under Local Rule 3.1(b), entitled "Indication of Related Actions," for at least the reason that it involves the same patent.
- 7. Venue is proper in this district pursuant to 28 U.S.C. § 1391(b) and (c) and 1400(b).

- 8. There is an actual controversy between TWC and USVO relating to the '792 patent. A copy of the '792 patent is attached as Exhibit A to this complaint.
- 9. On June 13, 2006, USVO filed a complaint in the United States District Court for the Eastern District of Texas ("Texas Action") alleging that Time Warner Inc. ("TWI") infringes at least claim 1 of the '792 patent by operating digital cable systems in which it provides video-on-demand (VOD) services to its subscribers and by providing its subscribers with digital set-top boxes to enable access to the VOD services. In this Texas Action, USVO also accused a number of cable television operators, including Charter Communications, Cox Communications and Comcast Cable Communications of infringing the '792 patent. TWI does not own or operate cable television systems. USVO alleges that it is the owner of the '792 patent. A copy of the complaint filed in the Texas Action (not including the '792 patent) is attached as Exhibit B to this complaint.
- 10. By virtue of the allegations against TWI and cable television operators in the Texas Action, TWC reasonably believes that USVO is intending to impact the business activities of TWC in operating digital cable systems that provide VOD services and is likely impacting the business activities of TWC, including potentially threatening to enjoin those activities by seeking relief against TWC, and is otherwise attempting to disparage and is likely disparaging the business activities of TWC by filing the Texas Action against TWI.

DECLARATORY JUDGMENT COUNT (NONINFRINGEMENT, INVALIDITY, AND **UNENFORCEABILITY OF THE '792 PATENT)**

- 11. TWC restates and realleges the allegations set forth in paragraphs 1 through 10 above and incorporates them by reference.
- TWC has not directly infringed, contributed to the infringement, or actively 12. induced the infringement of any claim of the '792 patent, nor has it otherwise committed any acts of infringement on any rights of USVO.
- 13. The claims of the '792 patent are invalid and unenforceable by reason of having been issued in violation of the U.S. patent laws, Title 35 United States Code, including violation of Sections 102, 103, 112, 115, and 116 thereof, and the Rules and Regulations of the Patent & Trademark Office relating thereto.

PRAYER FOR RELIEF

WHEREFORE, TWC prays for the following:

- 1. A judgment and declaration that TWC has not infringed and does not infringe in any manner any claim of the '792 patent, directly, contributorily or by inducement, and has not otherwise infringed or violated any rights of USVO.
- 2. A judgment and declaration that each claim contained in the '792 patent is invalid and unenforceable and therefore without any force or effect.
- 3. An injunction against USVO and its affiliates, subsidiaries, assigns, employees. agents or anyone acting in privity or concert with USVO from charging infringement or instituting any legal action for infringement of the '792 patent against TWC or anyone acting in privity with TWC, including the divisions, successors, assigns, agents, suppliers, manufacturers, contractors and customers of TWC.

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- 4. A judgment and declaration that this is an exceptional case within the meaning of 35 U.S.C. § 285, entitling TWC to an award of its reasonable attorneys' fees, expenses and costs in this action.
- 5. A judgment for such other and further relief in law or in equity as this Court deems just or proper.

ASHBY & GEDDES

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170472.1

EXHIBIT A



US005130792A

Patent Number:

United States Patent [19]

Tindell et al.

[45] Date of Patent:

5,130,792 Jul. 14, 1992

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Primary Examiner—Victor R. Kostak Attorney, Agent, or Firm—Kenneth C. Hill

[57]

ABSTRACT

A system and method for transferring video programs from a first location to a remote location provides for communication of the programs over selected commercial telephone networks. The program signals are digitized, compressed, and stored at the first location, and transferred to the remote location on request of a viewer. Due to the compression of the program, the time required for electronically transferring the program to the remote location is much less than the viewing time for such program. The compressed program is reconstructed at the remote location for viewing on available video display devices.

9 Claims, 4 Drawing Sheets

BEGIN	DEGIN
PEDGRAN -90	CONNECT TO110 CENTRAL110 SYSTEM
COMPRESS PROGRAM 92	REQUEST ~112
ENCODE PROGRAM 94	PROGRAM
31085	AVAILABLE ? NO
PROCERM	112
RECEIVE REQUEST FOR PROGRAM	CONNECT
100 NO	RECEIVER
INDICATE INDICATE	PROGRAM 118
YES PROGRAM NOT AVAILABLE	BECODE PROGRAM -120
CONFIRM AVAILABILITY	STORE PROGRAM -122
SET UP	DECOMPRESS -124
CONNECTION	PLAY BACK 126
PROGRAM	PROGRAM
END	(END

References Cited

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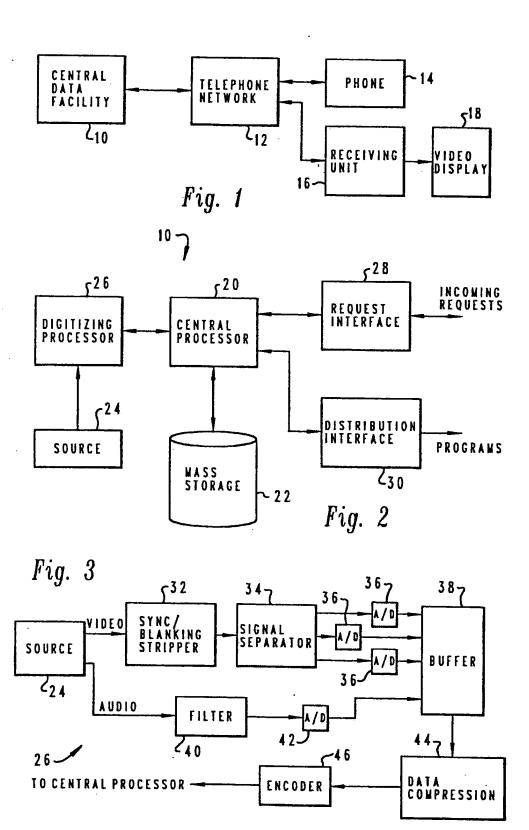
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U.S. Patent

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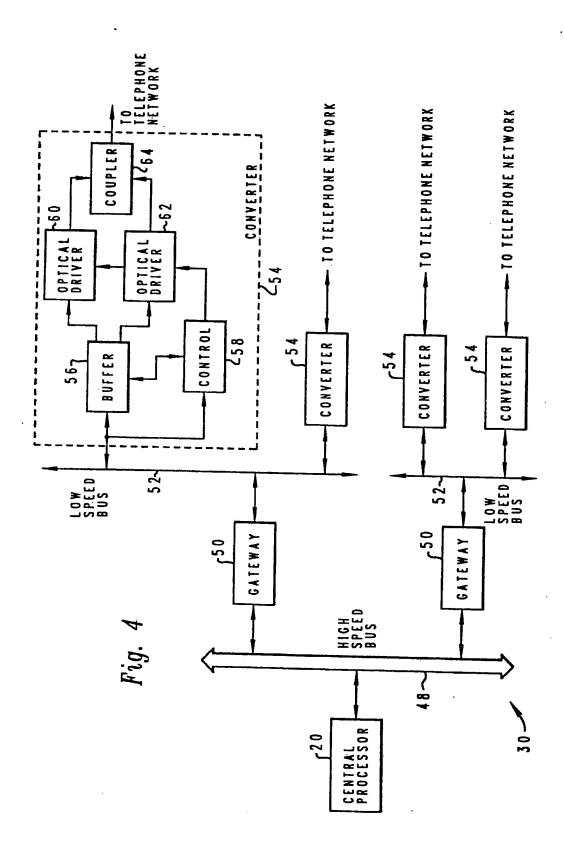


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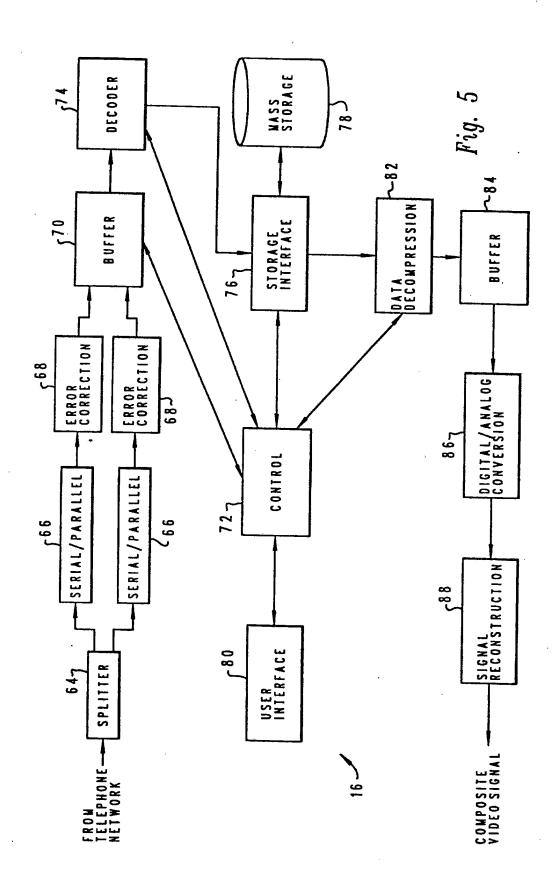


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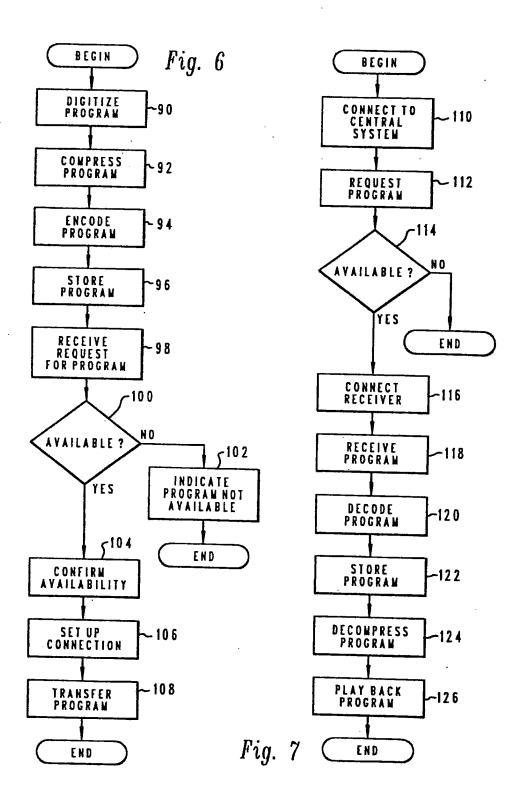


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1 STORE AND FORWARD VIDEO SYSTEM

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates generally to video systems and more specifically to a system and method for transferring a video program for display at a remote

2. Description of the Prior Art

Viewing of various types of video programs has become increasingly popular. These programs are generally viewed on standard television sets. Typical video programs include motion pictures, entertainment produced for television, and educational and training pro- 15 grams. An extremely wide variety of programs have been designed or adapted for television viewing.

In order to transfer the video programs to a remote location where they can be viewed, programs can be broadcast using radio waves, transferred to the remote 20 location by means of a specially installed dedicated cable, or transfer of a physical copy on video tape or video disk can be made. Each method of distributing video programs has drawbacks for certain applications.

When video programs are transferred using radio 25 waves, there is little or no control over who receives and views the program. This method of transferring video programs is not suitable for limited distribution of pay programs. In addition, the number of channels for transferring programs is not unlimited, and picture quality of the program can be degraded by atmospheric

Barring technical problems, programs transferred to a remote location along a specially installed, dedicated cable generally have a reliably good picture quality. 35 However, the cable must be installed at each remote location, and controlled through a centralized facility. Although many video channels can be carried over some cable systems, the number of channels is, again, not unlimited. As is the case with broadcast systems, 40 remote location. transmitting equipment must be made available at the time any particular program is to be viewed. The selection of programs and times for viewing are made centrally, as is the case with broadcast systems, and are not under the control of a viewer at a remote location.

Physical transport of video tapes to a remote location allows the viewer to select the program to be viewed and the time for viewing. However, such tapes must be physically transported to the remote location. This takes time, and is often not convenient for the viewer. 50 In addition, the physical video tape or disk containing the programming is subject to loss, theft, and deteriora-

It would be desirable to provide a system and method which overcomes various drawbacks as described above.

SUMMARY OF THE INVENTION

provide a system and method for transferring video programs from a first location to a remote location.

It is another object of the present invention to provide such a system and method wherein the programs are electronically transferred in a short period of time 65 relative to the viewing time of the programs.

It is a further object of the present invention to provide such system and method which does not require 2

that special, dedicated cables be connected to the remote location.

Therefore, according to the present invention, a system and method for transferring video programs from a first location to a remote location provides for communication of the programs over selected commercial telephone networks. The program signals are digitized, compressed, and stored at the first location, and transferred to the remote location on request of a viewer. 10 Due to the compression of the program, the time required for electronically transferring the program to the remote location is much less than the viewing time for such program. The compressed program is reconstructed at the remote location for viewing on available video display devices.

BRIEF DESCRIPTION OF THE DRAWINGS

The novel features believed characteristic of the invention are set forth in the appended claims. The invention itself however, as well as a preferred mode of use, and further objects and advantages thereof, will best be understood by reference to the following detailed description of an illustrative embodiment when read in conjunction with the accompanying drawings, wherein:

FIG. 1 is a high level block diagram of a system for transferring video programs to a remote location;

FIG. 2 is a block diagram of a central data facility; FIG. 3 is a block diagram of a system for digitizing

FIG. 4 is a block diagram of a distribution interface for use with the system of FIG. 1;

FIG. 5 is a block diagram of a receiver for use at a remote location;

FIG. 6 is a flowchart describing a method for making video programs available for transfer to a remote location: and

FIG. 7 is a flowchart illustrating a method for requesting, receiving, and displaying video programs at a

DESCRIPTION OF THE PREFERRED **EMBODIMENT**

Referring to FIG. 1, a system for transferring video programs to a remote location includes a central data facility 10 connected to a commercial telephone network 12. The central data facility 10 will be described in further detail in connection with the following figures. Telephone network 12 preferably includes optical fiber connections capable of transferring digital data at very high rates. Such optical fiber systems are currently being installed in selected locations in the United States, and are expected to be widely available in the future.

At a remote location, a telephone 14 and receiving for transmitting video programs to remote locations 55 unit 16 are connected to the telephone network 12. A video display device 18, such as a television conforming to the NTSC standard, is connected to the receiving unit 16 for displaying video programs which have been transferred from the central data facility 10 to the re-It is therefore an object of the present invention to 60 ceiving unit 16. A viewer who wishes to down load a program from the central data facility 10 into his receiving unit 16 calls the central data facility 10 using the normal telephone 14. After the program has been ordered, the user places the telephone 14 on-hook and switches the receiving unit 16 to standby. The central data facility 10 then returns the call and down loads the requested program into the receiving unit 16 for viewing at a time selected by the viewer.

A keyboard or other input device is preferably provided on the receiving unit 16 for the viewer to identify the requested program. Identifying information for the receiving unit, used for billing and call-back, can be stored in the receiving unit.

A block diagram of the central data facility 10 is shown in FIG. 2. The central data facility 10 includes a central processor 20 connected to one or more mass storage devices 22. Mass storage devices 22 are preferably high density devices such as optical disks. Programs 10 which are to be handled by the central data facility 10 are originally provided from one or several different types of video source 22 as known in the art. The video programs are digitized and compressed in a digitizing processor 26, and transferred to the central processor 20 15 for retention in mass storage devices 22.

Incoming requests for programs are connected to a request interface 28, which is in turn connected to the central processor 20. Outgoing programs being transmitted to remote receiving units are routed through a 20 distribution interface 30.

In a preferred embodiment, a user connects to the central data facility 10 through the request interface 28 by means of a standard TOUCH-TONE (DTMF) telephone. Once a connection has been made, the viewer 25 can identify himself and request any available program by entering a proper set of codes. The DTMF tones transferred to the request interface 28 are converted to characters and transmitted to the central processor 20. whether the requested selection is available. Desired information, such as the availability of a selection, any delay which may be incurred prior to down loading the selected program, or an indication of the charges inthrough a request interface 28 by means of DTMF tones or recorded or synthesized spoken messages.

Once a request has been made and acknowledged, central processor 20 selects an available output channel to distribution interface 30, and requests a telephone 40 switching network connection. Since each viewer must identify himself when the request is made, central processor 20 is able to call an authorized number at a known location corresponding to such user. Once the connection is established, the requested program can be 45 transferred from mass storage 22 through the distribution interface 30 to the remote location. Accounting data regarding the transaction is logged by the central processor 20 for administrative purposes.

Referring to FIG. 3, a block diagram of the digitizing 50 and compression processor 26 is shown. Source 24 provides separate video and audio signals to processor 26. The video signal is applied to a sync and blanking stripper circuit 32. The various sync signals and blanking intervals contained in the video signal are necessary 55 only for display of the program, and can be recreated in the receiving unit 16. The output from sync and blanking stripper 32 is connected to a signal separator 34, which breaks the video signal into its various basic elements. The number of separate channels into which 60 the video signal is separated at this point will depend upon system implementation, with signals such as luminance and chromanence being likely candidates for separate handling.

The separated signals are then converted to digital 65 signals in analog to digital converters 36, and stored in a buffer 38. As shown in FIG. 3, three separate video signals are digitized, but one, two, or more than three

signals may be used. If the video signal is not split into two or more parts, the output of the sync and blanking stripper 32 can be input directly to an analog to digital converter 36.

Since the audio signal is frequency modulated instead of amplitude modulated, it is preferably handled separately from the video signal. The audio signal is demodulated and filtered in filter 40, and digitized in analog to digital converter 42. The audio signal is also stored in buffer 38

Digital data from buffer 38 is input to a data compression circuit 44. Compressed data is input to an encoder 46, which encrypts the data in order to preserve privacy. From the encoder 46, the digital data representing the program originally provided by the source 24 is transferred to the central processor 20.

Buffer 38 can be a relatively small buffer, which requires that data be extracted therefrom and compressed in data compression circuit 44 as it is being generated by the source 24. In the alternative, buffer 38 can include mass storage capable of holding an entire program. In this event, the compression and encoding of the data can be performed after the entire program has been digitized, if desired.

Referring to FIG. 4, a block diagram of a preferred embodiment for the distribution interface 30 is shown. Central processor 20 is connected to a high speed bus 48, which is in turn connected to several gateways 50. Although two gateways 50 are shown in FIG. 4, the Central processor 20 identifies the caller and determines 30 number actually used depends upon details of the system implementation, especially with reference to the data throughput capabilities of the central processor 20 and the gateways 50.

Each gateway 50 is connected to a low speed bus 52. curred in the transaction, can be returned to the viewer 35 Each low speed bus 52 is preferably a commercially available local area network. A plurality of optical converters 54 are connected to each low speed bus 52. In FIG. 4, only two converters 54 are shown connected to each low speed bus 52, but more are preferably connected in an actual implementation. The number of converters 54 connected each low speed bus 52 depends on the data transfer rate of the converters 54 and data handling capability of the buses 52.

Data transferred to a converter 54 is placed into an internal buffer 56. Control circuitry 58 controls operation of the converter 54 and communicates with the gateway 50 over low speed bus 52. Control circuitry 58 also controls operation of optical drivers 60, 62. Each optical driver 60, 62 transmits the data from buffer 56 via a modulated light signal as known in the art. Each optical driver 60, 62 is connected to an optical coupler 64, which combines the different light signals onto a single optical fiber. In a preferred embodiment, optical drivers 60, 62 generate light having different wavelengths, which is multiplexed onto a single optical fiber by coupler 64. Particular system designs can utilize only a single optical driver 60, or more than the two optical drivers 60, 62 shown in FIG. 4.

The distribution interface 30 shown in FIG. 4 allows a single central processor 20 to drive a relatively large number of converters 54 at one time. Various alternative designs to that shown in FIG. 4 can, of course, be utilized if desired.

FIG. 5 shows a preferred embodiment of receiving unit 16. The receiving unit 16 shown in FIG. 5 is used only as a stand alone receiver, and does not incorporate the automatic program request facilities described in connection with FIG. 1.

The incoming optical signals are filtered by wavelength and split in optical splitter 64, and converted to digital electrical signals. In the embodiment shown in FIG. 5, two different wavelengths of light were used to transmit information over the optical fiber connection, so two separate channels of digital information are generated by splitter 64. The number of optical drivers 60, 62 as described in connection with FIG. 4 determines the number of channels into which the incoming data is split by splitter 64.

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Each channel of digital data is connected from splitter 64 to a serial to parallel converter 66, which converts the serial data to byte-wide data. As is known in the art, the serial transmission of the program data preferably includes redundant error correcting code (ECC), allowing for correction of errors within the receiving unit 16. Error correction is performed in error correction units 68, and the data is temporarily stored in buffer

Under control of control unit 72, data is removed 20 from buffer 70 and transferred to decoder 74. Decoder 74 decrypts the compressed data, undoing the encryption effects of encoder 46 described in connection with Mass storage device 78 is preferably an erasable optical disk, or other similar relatively low cost, high density storage medium.

Data is stored onto mass storage device 78 until the 30 entire requested program has been down loaded from the central data facility 10. Due to the removal of unnecessary information, compression of the remaining data, and high speed transfer, this down loading can be accomplished in much less time than is required to view 35 the program in real time. Once transfer has been completed, control unit 72 communicates such fact to user interface 80, which indicates through visual or audible means to a viewer that the down loaded program is now available for viewing. User interface 80 provides basic 40 functions for the viewer, such as setup for down loading a program, play a program, and pause during play of a down loaded program.

Once a viewer selects the play mode, control unit 72 causes the data stored in mass storage device 78 to be 45 transferred through storage interface 76 to a data decompression unit 82. Data decompression unit 82 restores the compressed data to its raw, uncompressed form, and transfers it to buffer 84. Data is extracted from buffer 84 in real time as needed for viewing, and 50 converted to analog form in digital to analog converter 86. The original video and audio signals are then restored in signal reconstruction circuit 88, which restores blanking intervals, sync signals, and the like which were removed in the digitizing and compression processor 55 26. The output of signal reconstruction circuitry 88 is a composite video signal or a modulated RF signal suitable for input to a standard television set. If desired, the program signal can alternatively be recreated as a digital signal suitable for display on a digital monitor as 60 known in the art.

Referring to FIG. 6, a preferred method for making a video program available for transmission to a remote location is shown. The program is first digitized 90 and compressed 92 as described in connection with FIG. 3. 65 The program is also preferably encoded 94, and stored 96 in a non-volatile mass storage device. If desired, the encoding step 94 may be left out.

At this point, the program is compressed and stored in condition to be transferred. The number of programs which can be stored at one time is limited only by the capabilities of the central processor 20, and the storage available in mass storage devices 22. When a request is received for a particular program 98, a check is made to see whether that program is available 100. If the requested program is not available, perhaps because the viewer made a mistake when entering his selection, 10 such fact is indicated to the viewer 102. If the program is available for down loading, that fact is confirmed to the viewer 104 and the central data facility 10 sets up a telephone connection with the remote location 106. Transfer of the program 108 is then performed as de-15 scribed above.

Referring to FIG. 7, a preferred method is shown by which the receiving unit 16 at the remote location receives and displays a requested program. First, a connection is made to the central data facility 110. As described above in connection with FIG. 1 this is preferably done by utilizing a standard TOUCH-TONE (DTMF) telephone handset to dial the central facility and enter a selection.

FIG. 3. Decoded data is then transferred through storage interface 76 and stored into mass storage device 78.

In a viewer then requests the desired program 112, and waits to see if it is available 114. If not, the process is complete. If the requested selection is available, the The viewer then requests the desired program 112, is complete. If the requested selection is available, the viewer hangs up the telephone handset and switches the receiving unit 16 to standby. The program is then received by the receiving unit 118, decoded, and stored into mass storage 122. When the viewer is ready to view the program, it is decompressed 124 and played back 126 for viewing on a video display. The viewer may preferably pause display of the program at any time by entering a command at the user interface 80, and may view the program multiple times.

The convenience and usefulness of the system described above depends in large part on the ability to be able to quickly down load a video program to the receiving unit 16. In order to illustrate the convenience of the system described above, an example illustrating the numbers involved will now be described.

A single television channel has a 6 megahertz bandwidth. By stripping unnecessary signals as described above, a video signal can be sampled at a rate of 16 megahertz and retain a good signal quality. Samples having a resolution of 8 bits provide sufficient video fidelity for television purposes. This results in a raw data rate of 16 megabytes per second of video data.

Assuming a desired program, such as a motion picture, to have a length of two hours, 7200 seconds of data must be digitized and stored. At a rate of 16 megabytes per second, this results in 115.2 gigabytes of raw data. As is known in the art, video information is highly redundant, so that large compression factors are obtainable. This means that a total data storage requirement of approximately 2-4 gigabytes is expected to be sufficient for a two hour video program. This is the storage requirement for a single program both in the central data facility 10 and the receiving unit 16. This amount of data is well within the capability of optical disks which are presently becoming available.

Assuming 2.3 gigabytes are required for a compressed program, and that a 50% overhead is required for serial transmission of the program data, for error correcting code, blocking, and the like, 3.45 gigabytes of serial data must be transmitted between the central data facility 10 and the receiving unit 16. At eight bits per byte, this results in 27.6 gigabits to be transferred.

Optical fiber connections currently planned for installation to residential customers will have a maximum data transfer rate of 144 megabits per second. At this rate, the required 27.6 gigabits can be transferred to the receiving unit 16 in 192 seconds, which is just over three minutes. Thus, approximately three minutes is required to transfer a typical video program to the receiving unit

Note that the numbers described above do not require the use of more than one wavelength of light on a single optical fiber. If it is necessary to increase the sampling rate, or the magnitude of each sample, two or more wavelengths of light can be multiplexed on a single cable as described in connection with FIGS. 4 and 5. This would allow better resolution of the video signal with no increase in transmission time.

If a video camera and compression circuitry is available at a remote location, it is possible to use the system described above to transfer video information between two remote locations. A call to the central data facility 20 can be used to initialize the connection between two remote locations, and the central data facility is no longer involved once the connection is setup. Near real-time video signals obtained at one location are 25 compressed and transferred to the second remote location over the phone lines. Instead of storing the signals onto the mass storage device 78, they are transferred directly to the data decompression circuitry 82 and displayed at the second remote location. Near real-time 30 video communication can be accomplished by providing cameras and compression circuitry at each end of a conversation.

While the invention has been particularly shown and described with reference to a preferred embodiment, it will be understood by those skilled in the art that various changes in form and detail may be made therein without departing from the spirit and scope of the invention.

What is claimed is:

- 1. A system for transmitting video programs to remote locations over a switched telephone network, comprising:
 - a central data facility having means for storing digital compressed versions of video programs;
 - a request interface connected to said central data facility and to the telephone network, wherein said request interface receives requests for video programs made over the telephone network and communicates them to said central data facility;
 - a distribution interface connected to said central data facility and to the telephone network, wherein said distribution interface initiates connections over the telephone network with remote locations in response to requests received by said request interface, and transmits thereto compressed versions of video programs previously requested through said request interface, such compressed versions being transmitted in less time than is required to view the programs in real time:
 - a receiver at each remote location for connecting to the telephone network and receiving compressed video programs transmitted from said distribution interface, for storing the received programs, and for subsequently playing the video programs at a 65 real time rate on a video display.
- 2. The system of claim 1, wherein requests are made to said request interface through preselected sequences

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of DTMF transmissions made from a telephone transceiver.

- 3. The system of claim 1, wherein said distribution . interface comprises:
- a plurality of converters for converting digital video programs to a format suitable for transmission over a telephone line; and
- a controller for simultaneously providing data representative of digital compressed video programs to each of said converters, wherein a plurality of the remote receivers can be simultaneously receiving such programs.
- 4. The system of claim 3, wherein said controller comprises:
- a high speed central processor for providing processing and data transfer functions;
- at least one gateway connected to said central processor by a high speed communications bus; and
- a communications network having a lower data carrying capacity than the high speed communications bus connected to each of said gateways, wherein a plurality of converters are connected to each communications network, and wherein said central processor controls the transfer of data to said converters through said gateways over the high speed communications bus and said communications network.
- 5. The system of claim 1, further comprising: means for inputting video programs; and
- conversion means connected to said inputting means and to said central data facility for digitizing and compressing video programs read in to said inputting means, and for transmitting such compressed video programs to said central facility for storage and subsequent transmission to remote locations.
- 6. A method for viewing video programs at a location remote from a central data facility, comprising the steps of:
- receiving at the central data facility a request for a selected program over a switched telephone network, such request identifying a preregistered requester:
- determining whether the selected program is available:
- if the selected program is available, initiating a connection over the telephone network to a remote receiving unit previously associated with the preregistered requester;
- transmitting a previously stored compressed version of the selected program over the initiated connection in less time than is required to view the program in real time;
- receiving the selected program at the remote receiving unit and storing it on a mass storage device; and
- after all of the selected program has been stored on the mass storage device, decompressing the selected program and playing it back in real time on a video display.
- 7. The method of claim 6, wherein the request received at the central data facility comprises a sequence of tones generated by a DTMF telephone.
- 8. The method of claim 6 wherein, if the selected program is available, such availability is confirmed during a connection in which such request is made, followed by terminating such connection prior to said step of initiating a connection.
- 9. A system for transmission of video programs over a switched telephone network, comprising:

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- a central data facility for storing a plurality of video programs in a digital, compressed format;
- means connected to said central data facility for digitizing and compressing video programs, and communicating them to said central data facility for 5 storage;
- a request interface connected to the telephone network and to said central data facility for receiving requests for desired video programs over the telephone network, such request being communicated 10 to said request interface by sequences of tones generated by a DTMF telephone in response to a user pressing buttons thereon in selected patterns, such patterns identifying the user and the desired video program, wherein said request communicates to 15 the user a confirmation of availability if a desired video program is available for the communication to the user;
- a distribution interface connected to said central data facility and to the telephone network, said distribution interface containing a plurality of converters for converting compressed digital data to a form suitable for transmission over the telephone net-

work, wherein said distribution interface initiates a connection with a receiving unit at a preselected remote location in response to the user's request and transmits the digitized, compressed video program to such remote unit over such connection in less time than is required to view the program in

- a plurality of receiving units at a plurality of remote locations, each of said receiving units connected to the telephone network and being capable of completing a connection initiated by said distribution interface and receiving digitized, compressed video programs over such connections, wherein each of said receiving units includes a mass storage subsystem for storing a received video program in compressed format, and a decompression subsystem for reading a stored video program from the mass storage subsystem at the user's convenience and converting it to a decompressed form suitable for display in real time; and
- a video display device connected to each receiving unit for displaying the converted video program.

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EXHIBIT B

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IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF TEXAS MARSHALL DIVISION

88888

§ § § 06 JUN 13 PM 2: 27 TY CKSTEMPHARCHALL

USA Video Technology Corporation,

Plaintiff

٧.

TIME WARNER INC; COX
COMMUNICATIONS, INC.; CHARTER
COMMUNICATIONS, INC.;
COMCAST CABLE
COMMUNICATIONS, LLC; COMCAST
OF RICHARDSON, LP; COMCAST OF
PLANO, LP; COMCAST OF DALLAS,
LP

Case No. 2-06CV-239

JURY TRIAL DEMANDED

Defendants

PLAINTIFF'S ORIGINAL COMPLAINT

Plaintiff, USA Video Technology Corporation ("USVO"), files this Original Complaint against Defendants, Time Warner Inc ("Time Warner"), Cox Communications, Inc. ("Cox"), Charter Communications, Inc. ("Charter"), Comcast Cable Communications LLC ("Comcast"), Comcast of Richardson, LP ("Comcast Richardson"), Comcast of Plano, LP ("Comcast Plano"), and Comcast of Dallas, LP ("Comcast Dallas") and alleges as follows:

THE PARTIES

- USVO is a corporation organized under the laws of the State of Connecticut with its principal place of business at 83 Halls Road, P.O. Box 245, Old Lyme, Connecticut, 06371.
- Time Warner, on information and belief, is a corporation organized under the laws of the
 State of New York. Time Warner is doing business in Texas, and, on information and

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belief, has a principal place of business at 1 Time Warner Center, New York, NY 10019-8016. Time Warner may be served with process by serving its registered agent, the CI Corporation System, 701 Brazos Street, Suite 360, Austin, TX 78701.

- 3. Cox, on information and belief, is a corporation organized under the laws of the State of Delaware. Cox is doing business in Texas, and, on information and belief, has a principal place of business at 1400 Lake Hearn Drive, Atlanta, GA 30319. Cox may be served with process by serving its registered agent, Corporation Service Company, 2711
 Centerville Road, Suite 400, Wilmington, DE 19808.
- 4. Charter, on information and belief, is a corporation organized under the laws of the State of Delaware. Charter is doing business in Texas, and, on information and belief, has a principal place of business at 12405 Powerscourt Drive, St. Louis, MO 63131. Charter may be served with process by serving its registered agent, Corporation Service Company DBA CSC-Lawyers Incorporating Service Company, 701 Brazos, Suite 1050, Austin, TX 78701
- Comcast, on information and belief, is a corporation organized under the laws of the State of Delaware. Comcast is doing business in Texas, and, on information and belief, has a principal place of business at 1500 Market Street, Philadelphia, PA 19102-2148.

 Comcast may be served with process by serving its registered agent, Comcast Capital Corporation at 1201 Market Street, Suite 1000, Wilmington, DE 19801.
- 6 Comcast Richardson on information and belief, is a corporation organized under the laws of the State of Delaware. Comcast Richardson is doing business in Texas, and, on information and belief, has a principal place of business at 1201 Market Street, Suite

- 1405, Wilmington, DE 19801. Comcast Richardson may be served with process by serving its registered agent, CI Corporation System, 350 North St Paul St., Dallas, TX 75201.
- 7. Comcast Plano on information and belief, is a corporation organized under the laws of the State of Delaware. Comcast Plano is doing business in Texas, and, on information and belief, has a principal place of business at 1201 Market Street, Suite 1405, Wilmington, DE 10901. Comcast Plano may be served with process by serving its registered agent, CT Corporation System, 350 North St. Paul Street, Dallas, TX 75201.
- 8. Comcast Dallas on information and belief, is a corporation organized under the laws of the State of Delaware. Comcast Dallas is doing business in Texas, and, on information and belief has a principal place of business at 1201 Market Street, Suite 1405, Wilmington, DE 19801. Comcast Dallas may be served with process by serving its registered agent, CT Corporation System, 350 North St. Paul Street, Dallas, TX 75201.

JURISDICTION & VENUE

- This is an action for infringement of a United States patent. Accordingly, this action arises under the patent laws of the United States of America, 35 U.S.C. § 1 et. seq. and jurisdiction is properly based on Title 35 United States Code, particularly § 271, and title 28 United States Code, particularly § 1338(a)
- 10. Venue is proper in this court under Title 28 United States Code § 1391(b) and 1400(b).

PATENT INFRINGEMENT COUNT

On July 14, 1992, United States Patent No. 5,130,792 ("the '792 patent") entitled "Store and Forward Video System" was duly and legally issued. A true and correct copy of the '792

patent is attached as Exhibit A. The '792 patent is directed to systems that communicate video programs to subscribers upon request, commonly referred to as video-on-demand (VOD)

- 12. Pursuant to 35 U.S.C. § 282, the above-listed United States Patent is presumed valid.
- 13. USVO is the owner of the '792 patent.
- 14. Time Warner, on information and belief, operates digital cable systems in which it provides video-on-demand (VOD) services to its subscribers. Time Warner provides its subscribers with digital set-top boxes to enable access to the VOD services. By offering such products and/or services Time Warner has in the past and continues to infringe at least claim 1 of the '792 patent.
- 15. Cox, on information and belief, operates digital cable systems in which it provides video-on-demand (VOD) services to its subscribers. Cox provides its subscribers with digital set-top boxes to enable access to the VOD services. By offering such products and/or services Cox has in the past and continues to infringe at least claim 1 of the '792 patent.
- 16. Charter, on information and belief, operates digital cable systems in which it provides videoon-demand (VOD) services to its subscribers. Charter provides its subscribers with digital
 set-top boxes to enable access to the VOD services. By offering such products and/or
 services Charter has in the past and continues to infringe at least claim 1 of the '792 patent.
- 17 Comcast, on information and belief, operates digital cable systems in which it provides video-on-demand (VOD) services to its subscribers. Comcast provides its subscribers with digital set-top boxes to enable access to the VOD services. By offering such products and/or services Comcast has in the past and continues to infringe at least claim 1 of the '792 patent.

- 18. Comcast Richardson, on information and belief, operates digital cable systems in which it provides video-on-demand (VOD) services to its subscribers. Comcast Richardson provides its subscribers with digital set-top boxes to enable access to the VOD services. By offering such products and/or services Comcast has in the past and continues to infringe at least claim 1 of the '792 patent
- 19 Comcast Plano, on information and belief, operates digital cable systems in which it provides video-on-demand (VOD) services to its subscribers. Comcast Plano provides its subscribers with digital set-top boxes to enable access to the VOD services. By offering such products and/or services Comcast has in the past and continues to infringe at least claim 1 of the '792 patent
- 20. Comcast Dallas, on information and belief, operates digital cable systems in which it provides video-on-demand (VOD) services to its subscribers. Comcast Dallas provides its subscribers with digital set-top boxes to enable access to the VOD services. By offering such products and/or services Comcast has in the past and continues to infringe at least claim 1 of the '792 patent
- 21. The Defendants' infringement of the '792 patent alleged above has injured USVO and thus, it is entitled to recover damages adequate to compensate for the Defendants' infringement, which in no event can be less than a reasonable royalty.

DEMAND FOR JURY TRIAL

22. USVO hereby demands a jury trial on all claims and issues triable of right by a jury.

PRAYER FOR RELIEF

Wherefore, USVO prays for entry of judgment:

A. that Defendants, Time Warner, Cox, Charter, Comcast, Comcast Richardson, Comcast Plano and Comcast Dallas, have infringed one or more claims of the '792 patent;

- B. that Defendants, Time Warner, Cox, Charter, Comcast, Comcast Richardson, Comcast Plano and Comcast Dallas, account for and pay to USVO all damages caused by the infringement of the '792 patent, which by statute can be no less than a reasonable royalty;
- that USVO be granted pre-judgment and post-judgment interest on the damages caused to them by reason of Defendants, Time Warner, Cox, Charter, Comcast, Comcast Richardson, Comcast Plano and Comcast Dallas's infringement of the '792 patent;
 - D. that USVO be granted its attorneys' fees in this action;
 - E. that costs be awarded to USVO;

F. that USVO be granted such other and further relief as the Court may deem just and proper under the current circumstances.

Date: 6/12/06

Respectfully submitted

Edward W Goldstein Iexas Bar. No. 08099500

GOLDSTEIN, FAUCETI & PREBEG, LLP

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Houston, IX 77027 Iel: 713/877-1515 Fax: 713/877-1737

E-mail: egoldstein@gfiplaw.com

I. John Ward, Jr. State Bar No. 00794818 Law Office of T. John Ward, Jr., P.C. P.O. Box 1231

> Longview, Texas 75606-1231 (903) 757-6400 (telephone) (903) 757-2323 (facsimile) E-mail: jw@jwfirm.com ATTORNEYS FOR PLAINTIFF

Of Counsel:

GOLDSTEIN, FAUCETT & PREBEG, L.L P Corby R. Vowell Texas Bar No 24031621 1177 West Loop South, Suite 400 Houston, Texas 77027 (713) 877-1515 – Telephone (713) 877-1737 – Facsimile JS 44 (Rev. 3/99)

CIVIL COVER SHEET

The JS-44 civil cover sheet and the information contained herein neither replace nor supplement the filing and service of pleadings or other papers as required by law, except as provided by local rules of court. This form, approved by the Judicial Conference of the United States in September 1974, is required for the use of the Clerk of Court for the purpose of initiating the civil docket sheet. (SEE INSTRUCTIONS ON THE REVERSE OF THE FORM.)

TIME WARNER CABLE INC.		USA VIDE	O TECHNOLOGY COR	RP.
(b) County of Residence of First Listed Plaintiff		County of Pari	dence of First Listed	
(EXCEPT IN U.S. PLAINTIFF CASES)		County of Resi	(IN U.S. PLAINTIFF CAS	ES ONLY)
		NOTE: IN LAN	ND CONDEMNATION CASES, I D INVOLVED.	
(c) Attorney's (Firm Name, Address, and Telephone Number)		Attorneys (If Kı	nown)	
Steven J. Balick, Ashby & Geddes 222 Delaware Avenue, 17th Floor,		** 1	•	
P.O. Box 1150, Wilmington, DE 19899 (302) 654-1888		Unknown		
II DAGIC OF HIDION CONTO	III. CITIZ	ZENSHIP OF P	PRINCIPAL PARTIES	(Place an "X" in One Box for Plaintif
☐ 1 U.S. Government		versity Cases Only)	DEF	and One Box for Defendant) DEF
Plaintiff (U.S. Government Not a Party)	Citizen	of This State	l 1 □ 1 Incorporated or of Business 1	r Principal Place 🔲 4 🔲 4
☐ 2 U.S. Government ☐ 4 Diversity Defendant (Indicate Citizenship of Parties in Item III)	Citizen	of Another State		nd Principal Place 5 55 In Another State
		or Subject of a	3 □3 Foreign Nation	□ 6 □ 6
IV. NATURE OF SUIT (Place an "X" in One Box Only)	Foreig	zn Country		
CONTRACT TORTS	FORFE	TURE/PENALTY	BANKRUPTCY	OTHER STATUTES
☐ 110 Insurance PERSONAL INJURY PERSONAL INJURY 0 362 Personal Injury— 362 Personal Injury—		Agriculture	☐ 422 Appeal 28 USC 158	☐ 400 State Reapportionment
☐ 130 Miller Act ☐ 315 Airplane Product Med. Malpractice	□ 6251	Other Food & Drug Drug Related Seizure	423 Withdrawal	☐ 410 Antitrust ☐ 430 Banks and Banking
☐ 150 Recovery of Overpayment ☐ 320 Assault, Libel & Product Liability	☐ 630 i	of Property 21 USC Liquor Laws	28 USC 157	☐ 450 Commerce/ICC Rates/etc. ☐ 460 Deportation
& Enforcement of Judgment Slander 368 Asbestos Personal	1 🔲 6401	R.R. & Truck Airline Regs.	PROPERTY RIGHTS	470 Racketeer Influenced and
Liability Liability Liability	□ 660 €	Occupational	820 Copyrights 830 Patent	Corrupt Organizations 810 Selective Service
(Excl. Veterans)	□ 690 ¢	Safety/Health Other	840 Trademark	☐ 850 Securities/Commodities/ Exchange
of Veteran's Benefits 350 Motor Vehicle 380 Other Personal		LABOR	SOCIAL SECURITY	☐ 875 Customer Challenge
☐ 160 Stockholders' Suits ☐ 355 Motor Vehicle Property Damage Product Liability ☐ 385 Property Damage	☐ 710 I	air Labor Standards	☐ 861 HIA (1395ff)	12 USC 3410 ☐ 891 Agricultural Acts
☐ 195 Contract Product Liability ☐ 360 Other Personal Injury Product Liability		Act .abor/Mgmt. Relations	☐ 862 Black Lung (923) ☐ 863 DIWC/DIWW (405(g))	☐ 892 Economic Stabilization Act☐ 893 Environmental Matters
REAL PROPERTY CIVIL RIGHTS PRISONER PETITIO	NS		☐ 864 SSID Title XVI	☐ 894 Energy Allocation Act☐ 895 Freedom of
☐ 210 Land Condemnation ☐ 441 Voting ☐ 510 Motions to Vacate ☐ 220 Foreclosure ☐ 442 Employment ☐ Sentence	;	abor/Mgmt.Reporting Disclosure Act		Information Act
230 Rent Lease & Ejectment 443 Housing/ Habeas Corpus:	U 740 F	lailway Labor Act	FEDERAL TAX SUITS	☐ 900Appeal of Fee Determination Under Equal Access to
245 Tort Product Liability 444 Welfare 535 Double B	☐ 790 C	Other Labor Litigation	☐ 870 Taxes (U.S. Plaintiff or Defendant)	Justice ☐ 950 Constitutionality of
☐ 290 All Other Real Property ☐ 440 Other Civil Rights ☐ 540 Mandamus & Othe ☐ 550 Civil Rights		mpl. Ret. Inc.	☐ 871 IRS—Third Party	State Statutes
☐ 555 Prison Condition	1	ecurity Act	26 USC 7609	☐ 890 Other Statutory Actions
V. ORIGIN (PLACE AN "X" IN ONE BOX ONLY)			1.0	Appeal to
☑ 1 Original □ 2 Removed from □ 3 Remanded from □	4	another	erred from district	District Judge from
Proceeding State Court Appellate Court	4 Reinstate Reopened	i ` .	y)	ict □ / Magistrate
Do not cite intrisdictional statutes unless diversity.)				
Title 35 U.S. Code, Sections 100 et seq. laws of the United States.	This	is an acti	on arising unde	r the patent
VII. REQUESTED IN CHECK IF THIS IS A CLASS ACTION) DEMA	ND ¢	CVIECULATED 1	
COMPLAINT: UNDER F.R.C.P. 23	DENIA		JURY DEMAND:	if demanded in complaint:
VIII. RELATED CASE(S) (See instructions):				
IF ANY			DOCKET	
Jorda				68-KAJ
June 15, 2006 SIGNATURE OF ATTO	ORNEY OF RE	CORD	A. R.O &	
FOR OFFICE USE ONLY		- WANTED	10. Daries	
RECEIPT # AMOUNT APPLYING IFP		JUDGE	MAG. JUD	GE

JS 44 Reverse (Rev. 12/96)

INSTRUCTIONS FOR ATTORNEYS COMPLETING CIVIL COVER SHEET FORM JS-44

Authority For Civil Cover Sheet

The JS-44 civil cover sheet and the information contained herein neither replaces nor supplements the filings and service of pleading or other papers as required by law, except as provided by local rules of court. This form, approved by the Judicial Conference of the United States in September 1974, is required for the use of the Clerk of Court for the purpose of initiating the civil docket sheet. Consequently, a civil cover sheet is submitted to the Clerk of Court for each civil complaint filed. The attorney filing a case should complete the form as follows:

- I. (a) Plaintiffs-Defendants. Enter names (last, first, middle initial) of plaintiff and defendant. If the plaintiff or defendant is a government agency, use only the full name or standard abbreviations. If the plaintiff or defendant is an official within a government agency, identify first the agency and then the official, giving both name and title.
- (b.) County of Residence. For each civil case filed, except U.S. plaintiff cases, enter the name of the county where the first listed plaintiff resides at the time of filing. In U.S. plaintiff cases, enter the name of the county in which the first listed defendant resides at the time of filing. (NOTE: In land condemnation cases, the county of residence of the "defendant" is the location of the tract of land involved.)
- (c) Attorneys. Enter the firm name, address, telephone number, and attorney of record. If there are several attorneys, list them on an attachment, noting in this section "(see attachment)".
- II. Jurisdiction. The basis of jurisdiction is set forth under Rule 8(a), F.R.C.P., which requires that jurisdictions be shown in pleadings. Place an "X" in one of the boxes. If there is more than one basis of jurisdiction, precedence is given in the order shown below.

United States plaintiff. (1) Jurisdiction based on 28 U.S.C. 1345 and 1348. Suits by agencies and officers of the United States, are included here.

United States defendant. (2) When the plaintiff is suing the United States, its officers or agencies, place an "X" in this box.

Federal question. (3) This refers to suits under 28 U.S.C. 1331, where jurisdiction arises under the Constitution of the United States, an amendment to the Constitution, an act of Congress or a treaty of the United States. In cases where the U.S. is a party, the U.S. plaintiff or defendant code takes precedence, and box 1 or 2 should be marked.

Diversity of citizenship. (4) This refers to suits under 28 U.S.C. 1332, where parties are citizens of different states. When Box 4 is checked, the citizenship of the different parties must be checked. (See Section III below; federal question actions take precedence over diversity cases.)

- III. Residence (citizenship) of Principal Parties. This section of the JS-44 is to be completed if diversity of citizenship was indicated above. Mark this section for each principal party.
- IV. Nature of Suit. Place an "X" in the appropriate box. If the nature of suit cannot be determined, be sure the cause of action, in Section IV below, is sufficient to enable the deputy clerk or the statistical clerks in the Administrative Office to determine the nature of suit. If the cause fits more than one nature of suit, select the most definitive.
- V. Origin. Place an "X" in one of the seven boxes.

Original Proceedings. (1) Cases which originate in the United States district courts.

Removed from State Court. (2) Proceedings initiated in state courts may be removed to the district courts under Title 28 U.S.C., Section 1441. When the petition for removal is granted, check this box.

Remanded from Appellate Court. (3) Check this box for cases remanded to the district court for further action. Use the date of remand as the filing date.

Reinstated or Reopened. (4) Check this box for cases reinstated or reopened in the district court. Use the reopening date as the filing date.

Transferred from Another District. (5) For cases transferred under Title 28 U.S.C. Section 1404(a) Do not use this for within district transfers or multidistrict litigation transfers.

Multidistrict Litigation. (6) Check this box when a multidistrict case is transferred into the district under authority of Title 28 U.S.C. Section 1407. When this box is checked, do not check (5) above.

Appeal to District Judge from Magistrate Judgment. (7) Check this box for an appeal from a magistrate judge's decision.

- VI. Cause of Action. Report the civil statute directly related to the cause of action and give a brief description of the cause.
- VII. Requested in Complaint. Class Action. Place an "X" in this box if you are filing a class action under Rule 23, F.R.Cv.P.

Demand. In this space enter the dollar amount (in thousands of dollars) being demanded or indicate other demand such as a preliminary injunction.

Jury Demand. Check the appropriate box to indicate whether or not a jury is being demanded.

VIII. Related Cases. This section of the JS-44 is used to reference related pending cases if any. If there are related pending cases, insert the docket numbers and the corresponding judge names for such cases.

Date and Attorney Signature. Date and sign the civil cover sheet.

United States District Court for the District of Delaware

	\cap	\cap	 287
Civil Action No.			

ACKNOWLEDGMENT OF RECEIPT FOR AO FORM 85

NOTICE OF AVAILABILITY OF A UNITED STATES MAGISTRATE JUDGE TO EXERCISE JURISDICTION

I HEREBY ACKNOWLEDGE RE	CEIPT OF COPIES OF AO FORM 85.
(Date forms issued)	(Signature of Party or their Representative)
	(Printed name of Party or their Representative)
Note: Completed receipt will be file	d in the Civil Action